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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/061,029	04/23/2002	Leland Yi	3545P2424	7868

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WEISS & MOY PC  
4204 NORTH BROWN AVENUE  
SCOTTSDALE, AZ 85251

EXAMINER
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BELL, PAUL A

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 12/18/2003

6

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/061,029

Applicant(s)

YI, LELAND

Examiner

PAUL A BELL

Art Unit

2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 01 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. The pre-amendment document filed on 4/23/2002 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121, as amended on June 30, 2003 (see 68 Fed. Reg. 38611, June 30, 2003). Only the corrected section of the non-compliant amendment document must be resubmitted (in its entirety). The amendments to the specification do not include markings.

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 9-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 recites the limitation "said input key and said image signal" in line 4. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Rao et al. (6,169,789).

With regard to claim 1 Rao et al. teaches a wireless keyboard with a built-in web camera (figure 1 and column 1, lines 22-36) comprising, in combination: a first input part for

transmitting input key data inputted by a user to a user terminal device (column 1, line 26 “full function keyboard); wherein said first input part comprises, in combination: a) an input key signal generator for producing a scan code corresponding to an input key selected by said user, b) an input key data generator for producing said input key data corresponding to said scan code, c) an input key converter for converting said input key data into a predetermined code format, d) an input key transmitter for transmitting said converted input key data to said user terminal device via a wireless network (the features a-d are inherent and basic to a wireless keyboard from the point of a user hitting a key to point of the information being transmitted also See figures 2-4 and column 9 line 54 – column 10 line 10); and a second input part for transmitting an image signal inputted from said web camera to said user terminal device; wherein said second input part (column 1, line 28 “digital camera”) comprises, in combination: e) an image receiver for receiving said image signal, f) an image compressor for adjusting and compressing said image signal, g) an image signal divider for dividing said compressed image signal, based on data size of said compressed image signal and a predetermined data size for transmission, into a proper size based on said predetermined data size; and (h) at least one transmitter for transmitting said divided image signal to said user terminal device (the features e-h are inherent and basic to a wireless keyboard that has a camera port and can transmit the images from the wireless keyboard to the internet also See figures 2-4 and column 9 line 54 – column 10 line 10).

With regard to claim 2 Rao et al. teaches the wireless keyboard as stated in claim 1, wherein said user terminal device comprises at least one selected from a group consisting of a computer and a set-top box (column 1, lines 11-20).

With regard to claim 3 Rao et al. teaches the wireless keyboard as stated in claim 1, wherein at least one selected from a group consisting of said input key data and said image signal is transmitted to said user terminal device through a wireless transmission (column 1, lines 37-42 and column 2, lines 19-32).

With regard to claim 4 Rao et al. teaches the wireless keyboard as stated in claim 3, wherein said wireless transmission comprises at least one selected from a group consisting of IR transmission and RF transmission (It is inherent since Rao et al. teaches wireless it can only be one or the other).

With regard to claim 5 Rao et al. teaches the wireless keyboard as stated in claim 1, wherein said input key data and said image signal are transmitted to said user terminal device with a predetermined identification code added (figure 4).

With regard to claim 6 Rao et al. teaches the wireless keyboard as stated in claim 1, wherein said image compressor adjusts brightness and color of said image signal using a reference value extracted from an analysis of said image signal (inherent well known feature of the digital camera cited by Rao et al. see figure 2 “data compression block”)

With regard to claim 7 Rao et al. teaches the wireless keyboard as stated in claim 1, wherein said image compressor compresses said image signal adding an error detection code for detecting errors which occurred in said step of wireless transmission (The use of “error detection code” is a standard well-known practice in transmitting data to the intranet and internet as done by Rao et al. see figure 3 “Encoder Block” therefore this feature is considered inherent).

With regard to claim 8 Rao et al. was shown in claims 1-7 to have most of the features claimed in 8 in addition Rao et al. teaches “a packet generator for receiving at least one selected from a group consisting of said input key data and said compressed image signal and producing at least one packet according to a predetermined method” (See figure 4 which teaches the broad concept of “Packets”)

With regard to claim 9 Rao et al. was shown in claims 1-8 to have most of the limitations of claim 9 in addition Rao et al. teaches “a receiving part for receiving data from a wireless keyboard via a wireless network” (figure 4, figure 5, items 35 and 30).

With regard to claim 10 Rao et al. Rao et al. teaches the receiving part as stated in claim 9, wherein said image converter determines said input device of said image signal and reports said input device to said user terminal device while converting said image signal (this is just a inherent feature to a device that communicates with the internet such as Rao et al. there is a “handshake” and the internet server knows the address name of the device talking to it).

With regard to claim 11 Rao et al. teaches the receiving part as stated in claim 9, wherein said wireless transmission comprises at least one selected from a group consisting of IR transmission and RF transmission (It is inherent since Rao et al. teaches wireless it can only be one or the other).

With regard to claim 12 Rao et al. was shown above in claims 1-11 to have most of the limitations of claim 12 in addition Rao et al. has “a plurality of input keys” (since column 1, line 26 states it’s a “full function keyboard” this feature is inherent).

With regard to claim 13 Rao et al. was shown above in claims 1-12 to have all the limitations of claim 13.

With regard to claim 14 Rao et al. teaches the wireless keyboard as stated in claim 13, wherein said camera can be separated from said wireless keyboard and be used separately (column 1, lines 26-30).

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Bell whose telephone number is (703) 306-3019.

If attempts to reach the examiner by telephone are unsuccessful the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377 can help with any inquiry of a general nature or relating to the status of this application.

Any response to this action should be mailed to:


Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Or Faxed to: (703) 872-9314 (for Technology Center 2600 only)

Or Hand-delivered to: Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

  
Paul Bell

Art unit 2675  
December 14, 2003

  
STEVEN SARAS  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600